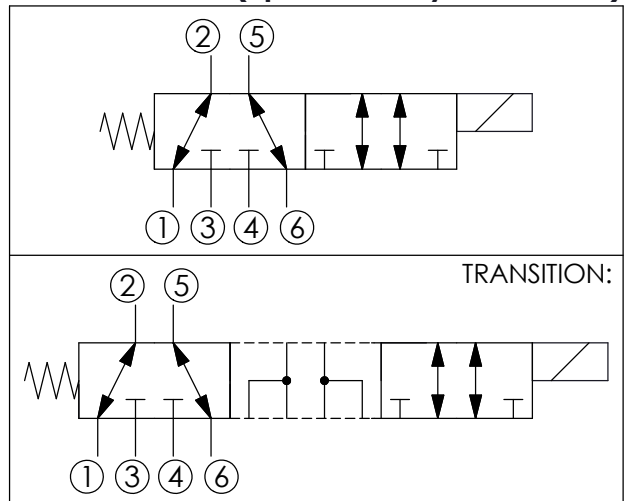
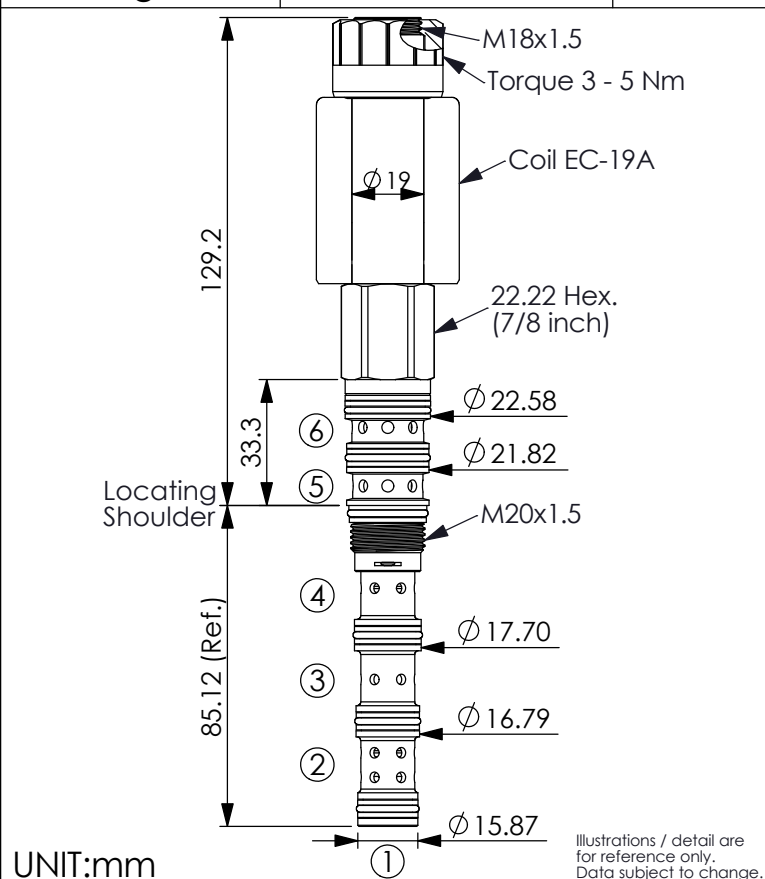


SOLENOID OPERATED VALVE (Direct-Acting) (Spool, 6-Way, 2-Position)

Ordering Code: **ES-61A-X-Y-Z-04**



TECHNICAL DATA

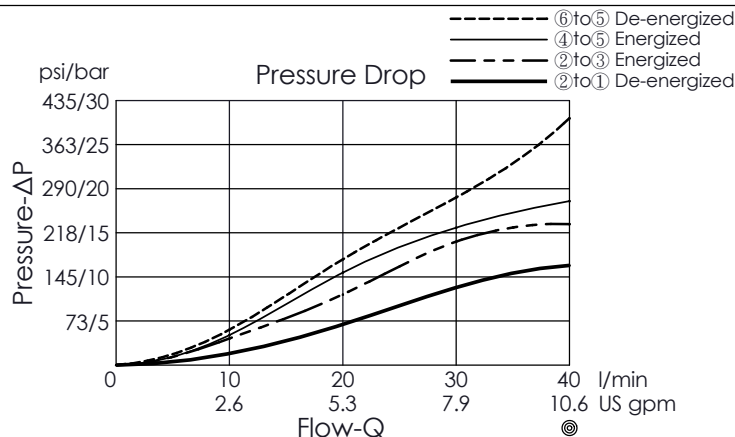
Max. Operating pressure: 350 bar
(Refer To Performance Chart)

Rated flow: 20 l/min
(Refer To Performance Chart)

Cavity-Tooling: 61A-6

Installation torque: 40 - 50 Nm

Weight: 0.383 (Z=N) kg



Operating Limits				
	②to①、⑥to⑤	①to②、⑤to⑥	②to③、④to⑤	③to②、⑤to④
350 bar (5000 psi)	8 l/min (2.2 US gpm)	8 l/min (2.2 US gpm)	17 l/min (4.5 US gpm)	7.5 l/min (2.0 US gpm)
280 bar (4000 psi)	11 l/min (3.0 US gpm)	9.5 l/min (2.5 US gpm)	19 l/min (5.0 US gpm)	9.5 l/min (2.5 US gpm)
210 bar (3000 psi)	13 l/min (3.4 US gpm)	13 l/min (3.4 US gpm)	24.5 l/min (6.5 US gpm)	13 l/min (3.5 US gpm)
140 bar (2000 psi)	15 l/min (4.0 US gpm)	18 l/min (4.8 US gpm)	34 l/min (9.0 US gpm)	17 l/min (4.5 US gpm)
70 bar (1000 psi)	20 l/min (5.4 US gpm)	32 l/min (8.5 US gpm)	38 l/min (10.0 US gpm)	24.5 l/min (6.5 US gpm)

The performance curve or data is only for reference, as customers' using condition, pressure, flow, hydraulic fluid viscosity, cleanliness, temperature and so on are different, the curve or data will be different.

Y	OPERATION
10	Spool, 6-Way, 2-Position, Ports ② and ① are connected, and Ports ⑥ and ⑤ are connected; When energized, Ports ② and ③ are connected, and Ports ④ and ⑤ are connected

Response time depending on pressure and flow: 40 - 60 ms

Hydraulic Fluid Viscosity · Cleanliness · Temperature Level: Please refer WINNER technical information.
(T.101.101.E HYDRAULIC FLUID (A) VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B) CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C) TEMPERATURE)

Minimum Voltage Required: 90 % of nominal

Coils must be ordered separately

Mounting Position: unrestricted

X	STRUCTURE
6D	6 Ports · 22 Watt. Coil Ø 19 mm tube
Z	OPTIONS
N	Non-adjustable
P	Push Style Manual Override
R	Manual Override Knob (Clockwise Operation, Return Automatically Once Released) Optional: Red (RD)